

Genomic RNA from Measles Virus, Edmonston

Catalog No. NR-44104

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Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from fetal human lung fibroblast cells (MRC-5, ATCC® CCL-171™) infected with measles virus (MeV), Edmonston (BEI Resources lot 70076591) using QIAcube® Viral RNA Kit (Qiagen® Material No. 1064533). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70077520

Manufacturing Date: 25AUG2025

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 910 nucleotides)	≥ 98% identity with MeV, Edmonston (GenBank: K01711.1)	100% identity with MeV, Edmonston (GenBank: K01711.1)
Functional Activity by RT-PCR Amplification¹ H gene	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²	Report results	5.5 ng per 100 µL (0.055 µg/mL)
Estimated Amount per Vial²	Report results	5.5 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 18 replicates)	Report results	5.7×10^7 NDU/mL ³
Virus Inactivation 10% of total yield inoculated on MRC-5 cells and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

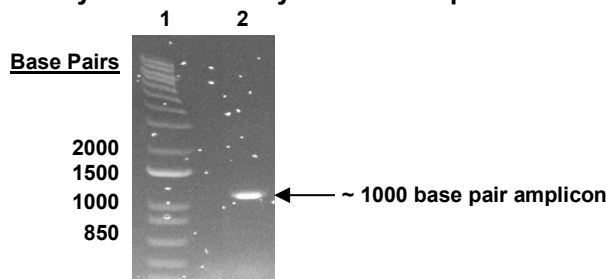
¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-44104 in a 50 µL reaction

²Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method.

³NDU; NAAT-detectable units

⁴Use of the QIAamp® Viral RNA Mini Kit (Qiagen catalog no. 52906) has been demonstrated to consistently inactivate 100% of MeV as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-44104 by RT-PCR Amplification of H Gene



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder
Lane 2: PCR product from 1 µL of NR-44104

/Sonia Bjorum Brower/

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05 DEC 2025

Technical Manager or designee, ATCC Federal Solutions

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